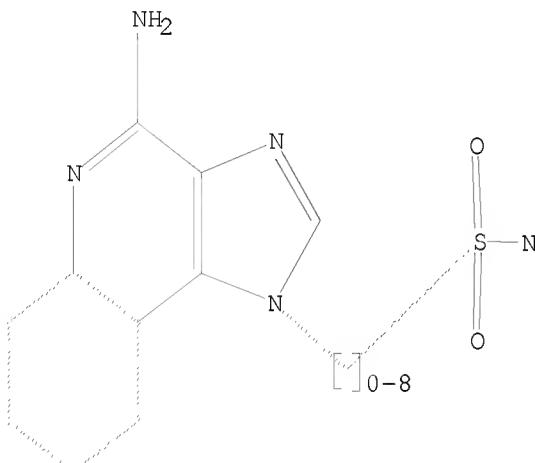


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Structure attributes must be viewed using STN Express query preparation.

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 SEARCH TIME: 00.00.01

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FULL ESTIMATED COST	185.88	562.84
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FILE 'CAPLUS' ENTERED AT 14:08:56 ON 09 SEP 2009
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FILE COVERS 1907 - 9 Sep 2009 VOL 151 ISS 11
FILE LAST UPDATED: 8 Sep 2009 (20090908/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

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The ALL, BIB, MAX, and STD display formats in the CA/CAplus family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 9.

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L10          3 L9
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L10 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
AB The present invention provides pharmaceutical combinations that include small mol. immune response modifiers (IRMs) formulated for mucosal administration and an antigen formulated for mucosal administration. Addnl., the invention provides methods for immunizing a subject. Generally, the methods include administering an antigen to a mucosal surface of the subject in an amount effective, in combination with an IRM compound, to generate an immune response against the antigen; and administering an IRM compound to a mucosal surface of the subject in an amount effective, in combination with the antigen, to generate an immune response against the antigen. For example, an ovalbumin-IRM1 (N-[6-[[2-[4-amino-2-(ethoxymethyl)-1H-imidazo[4,5-c]quinolin-1-yl]
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1,1-dimethylethyl]amino]-6-oxohexyl]-4-azido-2-hydroxybenzamide) conjugate was prepared and suspended in PBS to a final concentration of 5 mg/mL ovalbumin and

0.5 mg/mL IRM1. Mice were immunized on Day 0 with 100 µg of the ovalbumin-IRM1 conjugate, either intranasally or i.v. Intranasal delivery of antigen plus IRM1 generated greater total ovalbumin-specific CD8+ T cell (OT-I) nos. at Day 7 than i.v. delivery in all lymphoid tissues examined. Also, intranasal delivery of IRM1 plus antigen generated greater total OT-I cell nos. at Day 7 than antigen alone, indicating a dramatic effect of the IRM in enhancing antigen specific T cell activation via that route.

AN 2006:216958 CAPLUS
 DN 144:299305
 TI Compositions comprising nitrogen-containing heterocycle immune response modifiers for mucosal vaccination
 IN Miller, Richard L.; Kieper, William C.
 PA 3M Innovative Properties Company, USA
 SO U.S. Pat. Appl. Publ., 20 pp.
 CODEN: USXXCO

DT Patent
 LA English

FAN.CNT 1

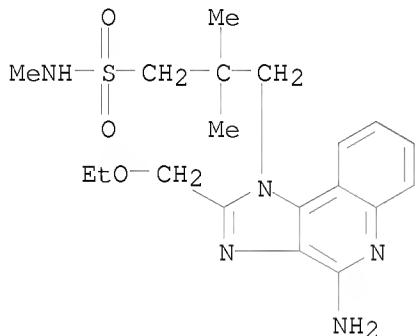
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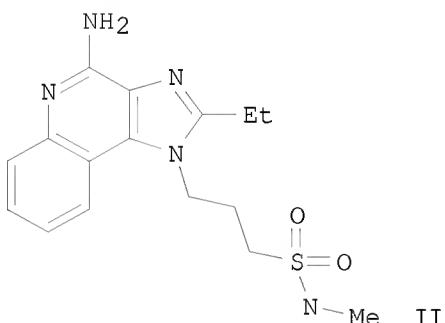
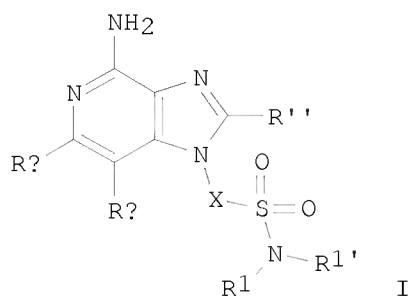
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CN 101426524	A	20090506		
IN 2006CN04378	A	20070615		

IT 859875-28-8, I RM 6

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (compns. comprising antigen and aminopyridine fused to five membered nitrogen-containing heterocycle as immune modifier for mucosal vaccination)

RN 859875-28-8 CAPLUS

CN 1H-Imidazo[4,5-c]quinoline-1-propanesulfonamide,
 4-amino-2-(ethoxymethyl)-N,β,β-trimethyl- (CA INDEX NAME)L10 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
GI



AB Title compds. I [X = CHR9, CHR9-alkylene, CHR9-alkenylene wherein alk(en)ylene are optionally interrupted by one or more O; R9 = H, alkyl; R1, R1' = independently H, (un)substituted alk(en)yl, hetero/aryl, etc.; or R1NR1' = nitrogen saturated ring; R'' = H, non-interfering substituent; RA, RB = independently H, halo, alk(en)yl, alkoxy, alkythio, NH2 and derivs.; or RBCCRA = (un)substituted fused hetero/aryl; and their pharmaceutically acceptable salts], were prepared as immunomodulators for inducing cytokine biosynthesis in animals and in the treatment of diseases including viral and neoplastic diseases. For example, II (m.p. = 225-228°) was prepared in 5 steps by amination of 4-chloro-3-nitroquinoline with N-methyl-3-aminopropane-1-sulfonamide•HCl, hydrogenation, cyclization of 1,2-diamine with tri-Et orthopropionate, and oxidation, and amination of the N-oxide (not isolated) with NH4OH. Certain I may modulate cytokine biosynthesis by inhibiting production of interferon α and/or tumor necrosis factor TNF- α when tested in an in vitro blood cell system (no data).

AN 2005:638876 CAPLUS

DN 143:153375

TI Preparation of imidazoquinolinyl, imidazopyridinyl, and imidazonaphthyridinyl sulfonamides as inducers of cytokine biosynthesis for treatment of viral and neoplastic diseases

IN Bonk, Jason D.; Dellaria, Joseph F., Jr.

PA 3M Innovative Properties Company, USA

SO PCT Int. Appl., 226 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.

KIND DATE

APPLICATION NO.

DATE

PI	WO 2005066169	A2	20050721	WO 2004-US43447	20041223
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OS CASREACT 143:153375; MARPAT 143:153375

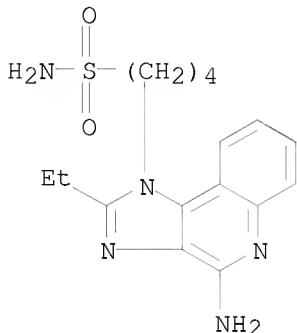
IT 859874-33-2

RL: PRPH (Prophetic)

(Preparation of imidazoquinolinyl, imidazopyridinyl, and imidazonaphthyridinyl sulfonamides as inducers of cytokine biosynthesis for treatment of viral and neoplastic diseases)

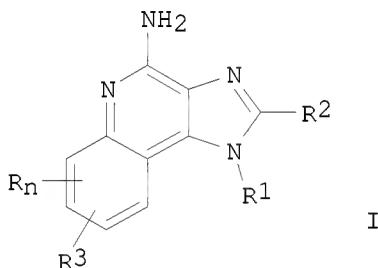
RN 859874-33-2 CAPLUS

CN 1H-Imidazo[4,5-c]quinoline-1-butanesulfonamide, 4-amino-2-ethyl- (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
 GI



AB Title compds. I ($R = \text{alkyl, alkoxy, OH, CF}_3$; $n = 0, 1$; $R1, R2 = H$, non-interfering substituent; $R3 = ArZ$, aminosulfonylaryl, aminocarbonylaryl, etc.; $Ar = \text{aryl, heteroaryl}$; $Z = \text{bond, alkylene, alkenylene, alkynylene}$) which are immunomodulators, inducing cytokines biosynthesis, and inhibiting tumor necrosis factors biosynthesis, are prepared. For example, 2-butyl-1-isobutyl-7-(thiophen-3-yl)-1H-imidazo[4,5-c]quinolin-4-amine was prepared in a multi-step synthesis starting from 3-bromoaniline, tri-Et orthoformate, and Meldrum's acid. I are useful in the treatment of viral and neoplastic diseases.

AN 2004:566606 CAPLUS

DN 141:123628

TI Preparation of aryl/heteroaryl substituted imidazoquinolines as immunomodulators
 IN Hays, David S.; Niwas, Shri; Kshirsagar, Tushar; Ghosh, Tarun K.; Gupta, Shalley K.; Heppner, Philip D.; Merrill, Bryon A.; Bonk, Jason D.; Danielson, Michael E.; Gerster, John F.; Haraldson, Chad A.; Johannessen, Sarah C.; Kavanagh, Maureen A.; Lindstrom, Kyle J.; Prince, Ryan B.; Radmer, Matthew R.; Rice, Michael J.; Squire, David J.; Strong, Sarah A.; Wurst, Joshua R.

PA 3M Innovative Properties Company, USA

SO PCT Int. Appl., 465 pp.

CODEN: PIXXD2

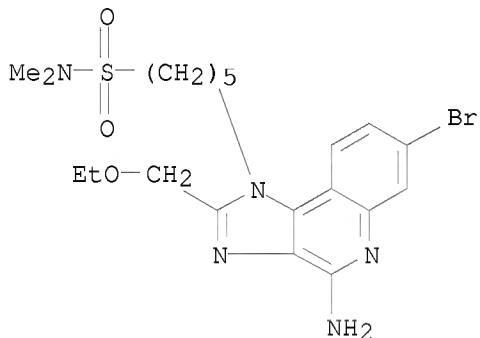
DT Patent

LA English

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IT 723283-23-6				
RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of imidazoquinoline derivs. as immunomodulators for treatment of viral and antineoplastic diseases)				
RN 723283-23-6 CAPLUS				
CN 1H-Imidazo[4,5-c]quinoline-1-pentanesulfonamide, 4-amino-7-bromo-2-(ethoxymethyl)-N,N-dimethyl-				(CA INDEX NAME)



OSC.G 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)